Permafrost Monitoring Network

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GSC maintains, with partners, a national permafrost monitoring network that provides information to:

- characterize current permafrost thermal state
- assess changes in permafrost conditions
- support climate change assessments and adaptation planning
- support model development and validation
GSC and University of Ottawa collaborated to address the lack of current information on permafrost conditions in southern YT

- Instrumentation of boreholes at as part of IPY project (mountain permafrost)
- Field site establishment along AK highway corridor including reactivation of boreholes
- Collaboration with YRC, YGS, YT Dept. of Highways
Ground temperature in instrumented boreholes

Elevation – ground temperature relationship

Assessing change in permafrost conditions over time